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50X1

SECRET

REPORT [redacted]

50X1-HUM

COUNTRY : USSR (Moscow Oblast)
SUBJECT : Induction Heaters Used at NII-160, Fryazino

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THIS IS UNEVALUATED INFORMATION

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1.

All induction heaters were water-cooled open type coils. These coils were approximately 5 mm in diameter, 1 mm in wall-thickness and were made of copper. These open coils had various shapes and were used in different positions relative to the tube being heated. One type was an open spiral coil that was lowered vertically over the tube to be heated. A second type consisted of two plain U-shaped coils that were placed on each side of a tube; a third type was also U-shaped, but allowed the tube to pass through it for heating. A fourth type was two small spiral coils that were placed horizontally, one on each side of a tube.

2.

The power input for the rectifying unit was 8 KW; this unit supplied 10 to 12 induction heaters, which represented 10-12 tube positions on a rotary head machine. Estimated output was 3.5 to 4 KW.

3.

The radio frequency employed by each type of induction heater was approximately 5 to 6 megacycles (wavelength 500 to 650 meters).

4.

5.

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